

Electronic Kanban, a new approach to providing lean management and feeding production lines (production-related educational organizations)

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Abstract

Undoubtedly, the transition from mass production to lean and agile production is a necessity in our country today, with the emergence of new management topics and tools and the emphasis on supporting national production, Iranian labor and capital, and in order to achieve world-class production that is competitive with other countries, the need for a deep understanding of the concepts and literature of "lean manufacturing" is felt more than ever. The basic concept of lean thinking is to eradicate waste and create value in the organization. Therefore, the purpose of this research is to examine the electronic Kanban system, the use of procurement modules that achieve the organization's procurement goals with low cost and energy, considering information technology systems. Documentary and library methods have been used to collect data. This research designed the electronic Kanban model and its improved effects after application in a manufacturing organization and then presented creative patterns for developing new systems as the basis for developing electronic models for production planning and control. Production management is one of the challenges facing manufacturing organizations in the global competition arena, and the move towards developing innovative models and gaining comparative advantage with the help of these models attracts extensive investment annually by these organizations. Kanban, one of the powerful tools for planning and monitoring production in the Just-in-Time system (just-in-time production system), has attracted the attention of Iranian manufacturing organizations in recent years, and the implementation of its evolved models with the help of modern information technology technologies will definitely be effective in reducing the impact of lost opportunities in this way for these organizations.

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